

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION -- 10-16-1985

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY (314) 621-0525

PRODUCT CLASS MODIFIED POLYISOCYANATE RESIN

TRADE NAME Low Solids Clear Urethane Topcoat Converter for Spray
Application - AWL-CAT® #12

CODE G3004

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT [COMMON NAME] [CHEMICAL NAME]	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg)
TOLUENE				
METHYL BENZENE	15	100	200	23
ETHYL ACETATE				
ETHYL ETHANOATE	21	400	400	86
CELLOSOLVE ACETATE				
2-ETHOXYETHYLETHANOATE	30	5	100	1
ALIPHATIC POLYISOCYANATE				
1,6-HEXAMETHYLENE DIISOCYANATE	34	0.02	0.02	0

* Values given are in mg/M³.

NA -- Not available

NE -- Not established

Care should be taken when sanding pigmented paints.
Airborne nuisance particulates have an ACGIH TLV of
total dust = 10 mg/M³.

This material does not contain intentionally added ingredients
which are based on compounds of antimony, arsenic, cadmium, lead,
mercury, selenium, or water soluble barium.

SECTION III -- PHYSICAL DATA

WEIGHT PER GALLON 8.23 lbs. VOLUME PERCENT VOLATILE 71

BOILING RANGE 168°F -- 382°F

EVAPORATION RATE -- Slower than Ether
VAPOR DENSITY ----- Heavier than Air

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

DANGER! -- FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 24°F TCC

LEL 1.20

EXTINGUISHING MEDIA -- Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS -- Keep away from heat, sparks,
and flame. Do not smoke. Extinguish all pilot lights and turn
off all sources of ignition, including heaters, fans, and other
non-explosion-proof electrical equipment, during use and until
all vapors are gone. Vapors may ignite explosively. Vapors
may spread long distances and beyond closed doors. Prevent
build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES -- Self contained breathing appara-
tus with a full facepiece operated in pressure-demand or other
positive pressure mode. In case of fire, use CO₂, Dry Chemical
Foam, or other approved method for treating Class B fire
Summon professional firefighters.

Personnel who are fighting isocyanate fires should wear
self-contained breathing apparatus.

SECTION V -- HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

EYES Can cause severe irritation, redness, tearing,
and blurred vision.

SKIN Prolonged or repeated contact can cause moderate
irritation, defatting, and dermatitis.

BREATHING Excessive inhalation of vapors can cause nasal
and respiratory irritation, dizziness, weakness,
fatigue, nausea, headache, possible unconscious-
ness, and even asphyxiation.

SWALLOWING INGESTION IS HARMFUL and can cause a burning
sensation, nausea, vomiting, and diarrhea.

WARNING! Reports have associated repeated and prolonged occupa-
tional overexposure to solvents with permanent brain and nervous
system damage. Intentional misuse by deliberately concentrating
and inhaling the contents may be harmful or fatal.

WARNING! Harmful or fatal if swallowed. Harmful if inhaled or
absorbed through skin. Overexposure may cause blood disorders.
Based on tests with laboratory animals, overexposure may cause re-
productive disorders and birth defects.

ADDITIONAL EFFECTS OF OVEREXPOSURE

-Can cause irritation to mucous membranes.
-Lazitude, loss of appetite, and a bad taste may be noted at high
concentrations.
-Narcotic effects have been noted.
-May cause injury to kidneys and liver.
-Corneal effects may occur.
-Persons with asthmatic-type conditions, chronic bronchitis, other
chronic respiratory diseases or recurrent skin eczema or sensitiza-
tion should be excluded from working with isocyanates. Once a
person is diagnosed as sensitized to an isocyanate no further ex-
posure can be permitted.

-Allergic skin or respiratory reaction may occur in some individuals. Respiratory sensitivity results in asthma-like symptoms on subsequent exposure even below the TLV. Skin sensitivity results in allergic dermatitis which may include rash, itching, hives and swelling of extremities.

FIRST AID:

IN CASE OF SKIN CONTACT: Wash area thoroughly with soap and water. Remove soiled clothing. Get medical assistance if irritation persists. Wash clothing before reuse.

IN CASE OF EYE CONTACT: Flush with large amounts of water for at least 15 minutes. Get medical assistance.

IF SWALLOWED: GET MEDICAL ATTENTION IMMEDIATELY. DO NOT induce vomiting. Aspiration of material into lungs can cause chemical pneumonitis which may be fatal.

IF INHALED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

SECTION VI -- REACTIVITY DATA

HAZARDOUS POLYMERIZATION -- Can not occur. STABILITY -- Stable.

MATERIALS TO AVOID

Excess heat and/or oxidizing materials.

Avoid contact with water, alcohols, amines, strong bases, metal compounds, or surface active materials.

In addition Chlorosulfonic acid

HAZARDOUS DECOMPOSITION

Oxides of nitrogen are emitted upon decomposition.

SECTION VII -- SPILL OR LEAK PROCEDURES

SMALL SPILL Absorb liquid on inert material such as paper, vermiculite, floor absorbent, and transfer to hood.

LARGE SPILL Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, contain area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be absorbed with inert materials such as sand, clay, earth, or floor absorbent, and shoveled into containers. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify the proper authorities as required that a spill has occurred.

WASTE DISPOSAL METHOD

Allow volatile portion to evaporate in hood (be sure to allow sufficient time for vapors to completely clear hood duct work. Dispose of contaminated absorbent, container and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers.

SECTION VIII -- PROTECTIVE EQUIPMENT

VENTILATION/RESPIRATORY PROTECTION

Use only with adequate ventilation. Maintain continuous flow of fresh air. Do not breathe vapors, spray mists, or sanding dusts. Wear appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor, mist, and particulate levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Engineering or administrative controls should be implemented to reduce exposure.

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

PERSONAL PROTECTIVE EQUIPMENT

Do not get in eyes, on skin, or on clothing. Use solvent resistant safety eyewear with splash guards. Solvent impermeable gloves, clothing, and boots are recommended to prevent skin contact.

In addition a respirator that is recommended or approved for use in isocyanate containing environments (air purifying or fresh air may be necessary).

SECTION IX -- SPECIAL PRECAUTIONS AND ADDITIONAL COMMENTS

Keep closure tight and upright to prevent leakage. Keep container closed when not in use. Do not store above 120°F. Do not transfer contents to bottles or other unlabeled containers.

Containers of this material may be hazardous when emptied because they retain product residues (vapor, liquid, and/or solid). All hazard precautions given in this data sheet must be observed.

IMPORTANT!!

This product may be blended with other products prior to use. Read all warnings and precautions on the labels of all products being blended as the combination may contain the hazards of each component.

NON-WARRANTY

The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. No warranty or guarantee expressed or implied is made regarding the performance of any product, since the manner of use is beyond our control. No suggestion for product use, nor anything contained herein, shall be construed as a recommendation for its use in infringement of any existing patent, and Grow Group assumes no responsibility or liability for operations that do infringe any such patents.

FOR INDUSTRIAL USE ONLY

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